



#16
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Bronshtein) Group Art Unit 1651
Appl. No. : 09/254,563)
Filed : March 5, 1999)
For : SHELF PRESERVATION)
OF CELLS, TISSUES,)
ORGANS AND ORGANISMS)
BY VITRIFICATION)
Examiner : Saucier, S.

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OFFICE OF PETITIONS

AMENDMENT AFTER A REJECTION

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the Office Action, Paper No. 13, mailed October 22, 2001, I respectfully request that the above-referenced application be amended as indicated below and that the Examiner considers the following arguments.

IN THE CLAIMS:

Please amend the following claims:

1. (Three times Amended) A method for cryopreserving a cell or tissue specimen without freezing (ice formation) comprising: (a) Dehydrating and loading the specimen by equilibration [with] in concentrated solutions comprising a permeating cryoprotectant, a non-permeating co-solute and a non-permeating polymeric cryoprotectant, wherein the non-permeating co-solute effectively decreases the chemical potential of the permeating cryoprotectant and thereby thermodynamically limiting the maximum amount of the permeating cryoprotectant loaded inside the cells of the specimen; and (b) vitrifying (transforming to the solid amorphous state) the dehydrated specimen by cooling to a refrigerating storage temperature above -80°C ; and (c)